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APRIL 04, 2001

PTAS

MINTZ, LEVIN, COHN, FERRIS, ET AL
IVOR R. ELRITI, PH.D.
ONE FINANCIAL CENTER
BOSTON, MASSACHUSETTS 02111



101595913A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

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RECORDATION DATE: 01/16/2001

REEL/FRAME: 011451/0912
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CARR, DANIEL B.

DOC DATE: 11/07/2000

ASSIGNEE:

NEW ENGLAND MEDICAL CENTER
HOSPITALS, INC.
750 WASHINGTON STREET, NEMC #817
BOSTON, MASSACHUSETTS 02111

SERIAL NUMBER: 09428692
PATENT NUMBER:

FILING DATE: 10/28/1999
ISSUE DATE:

ALLYSON PURNELL, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

18475-016

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<input type="checkbox"/> ELITE	
<input type="checkbox"/> Incomplete	

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MINT
PATENT

01-29-2001



Attorney Docket No. 18475-016

RECOI

101595913

FORM PTO-1595
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)

1-16-01

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Daniel B. Carr

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: November 7, 2000

2. Name and address of receiving party(ies)

Name: New England Medical Center Hospitals, Inc.

Internal Address: 750 Washington Street, NEMC #817
Boston, MA 02111

Street Address: 750 Washington Street, NEMC #817
Boston, MA 02111

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is _____

A. Patent Application No(s):

09/428,692

B. Patent No(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence
Concerning document should be mailed:

Name: Ivor R. Elrifi, Ph.D.
Address: MINTZ, LEVIN, COHN, FERRIS
GLOVSKY and POPEO, P.C.
One Financial Center
Boston, MA 02111

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41) \$40.00

- ☒ Enclosed
☐ The Commissioner is authorized to charge Deposit Account
No: 50-0311, Reference No. 18475-016.

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9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Ivor R. Elrifi, Reg. No. 39,529

Name of Person Signing

Signature

January 16, 2001

Date

Total number of pages including cover sheet, attachments, and document: [4]

1/29/2001 DBYRNE 00000137 09428692

1 FC:581

40.00 OP

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Commissioner of Patents and Trademarks
Washington, D.C. 20231

TRADOCs:1424722.1(%JBM01!.DOC)

ASSIGNMENT

I, **Daniel B. Carr**, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, hereby assign, sell and transfer to **New England Medical Center Hospitals, Inc., a Delaware corporation, with offices at 750 Washington Street, NEMC #817, Boston, MA 02111** and its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE: (1) my entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for United States Letters Patent entitled:

NOVEL CHIMERIC ANALGESIC PEPTIDES

filed with the U.S. Patent and Trademark Office on October 28, 1999 and assigned Serial No. 09/428,692, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my name as the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

I hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

I agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

I further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

I further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: Nov 7, 2000

Daniel B. Carr

Signature of Daniel B. Carr

State of Massachusetts

Country of Suffolk

Subscribed and sworn to before me this 7 day of November 2000.

Irene Doucette

Notary Public

My commission expires

IRENE DOUCETTE

Notary Public

My Commission Expires

February 10, 2006

TRADOCs:1396658.1(TX_2011.DOC)



UNITED STATES
PATENT AND
TRADEMARK OFFICE

BHJ/NML F

APRIL 18, 2002

CHOATE, HALL & STEWART
BRENDA HERSCHBACH JARRELL
EXCHANGE PLACE
53 STATE STREET
BOSTON, MA 02109

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RECORDATION DATE: 02/04/2002

REEL/FRAME: 012596/0973

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

KREAM, RICHARD

DOC DATE: 12/20/2001

ASSIGNEE:

NEW ENGLAND MEDICAL CENTER
HOSPITALS, INC.
750 WASHINGTON STREET, NEMC #817
BOSTON, MASSACHUSETTS 02111

SERIAL NUMBER: 09428692

FILING DATE: 10/28/1999

PATENT NUMBER:

ISSUE DATE:

SHARON LATIMER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



To the Honorable Commissioner of Patents

101992832

Original documents or copy thereof.

1. Name of conveying party(ies):

Richard Kream

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: New England Medical Center Hospitals, Inc.

Internal Address:

Street Address: 750 Washington Street

NEMC # 817

City: Boston

State: MA

Zip Code: 02111

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: December 20, 2001

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

09/428,692 filed October 28, 1999

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Brenda Herschbach Jarrell

Internal Address: Choate, Hall & Stewart

Street Address: Exchange Place
53 State Street

City: Boston State: MA ZIP: 02109

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41). \$40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number: 03-1721

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Brenda Herschbach Jarrell

Name of Person Signing

Reg. No. 39,223

Signature

Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:
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Washington, D.C. 20231

3350335_1.DOC

02/25/2002 TDIAZ1 00000010 09428692

01 FC:581

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner For Patents, Washington, D.C. 20231 on January 4, 2002

Brenda Herschbach Jarrell

ATTORNEY'S DOCKET NUMBER: 2004117-0002 (NEMC 197)

ASSIGNMENT

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned **Richard Kream** of Huntington, NY hereby sells, assigns and transfers to **New England Medical Center Hospitals, Inc.**, having a place of business at **750 Washington Street, NEMC # 817 Boston, MA 02111**, its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE, his entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent entitled "**NOVEL CHIMERIC ANALGESIC PEPTIDES**" filed **October 28, 1999**, and given serial number **09/428,692** in and to said application and all divisional, continuing, substitute, renewal, reexamination, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original, reissued, and reexamination patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agrees that said ASSIGNEE may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said ASSIGNEE, agrees to carry out in good faith the intent and purpose of this Assignment by executing all divisional, continuing, substitute, renewal, reexamination, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said ASSIGNEE all facts known to me relating to said inventions and the history thereof, and generally by doing everything possible which said ASSIGNEE shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said ASSIGNEE.

Hereby requests the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE.

Covenants with said ASSIGNEE that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.

223 WALL STREET
IN WITNESS WHEREOF, I hereto set my hand and seal at Huntington, NY 11743
December this 20 day of December, 2001.


Richard Kream

STATE OF New York
COUNTY OF Suffolk SS.

Before me this 20 day of December, 2001, personally appeared **Richard Kream** known to me to be the person whose name of subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Ivelisse Berardelli
Notary Public, State of New York
No. 01BE60562833
Qualified in Nassau County
Commission Expires December 26, 2002





UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APRIL 04, 2001

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MINTZ LEVIN COHN PERRIS GLOVSKY & POPEO
IVOR R. ELRIFI
ONE FINANCIAL CENTER
BOSTON, MA 02111



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RECORDATION DATE: 01/16/2001

REEL/FRAME: 011451/0955
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

LIPKOWSKI, ANDRZEJ W.

DOC DATE: 11/09/2000

ASSIGNEE:

MIDICAL RESEARCH CENTER OF THE
POLISH ACADEMY OF SCIENCES
PAWINSKIEGO STREET 5
02106 WARSAW, POLAND

SERIAL NUMBER: 09428692
PATENT NUMBER:

FILING DATE: 10/28/1999
ISSUE DATE:

JEFFREY OLSEN, EXAMINER
ASSIGNMENT DIVISION
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MINTZ LEVIN COHN PERRIS GLOVSKY & POPEO
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<input type="checkbox"/> Annulities	

01-29-2001



Attorney Docket No. 18475-016

RECORD

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FORM PTO-1595
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)

1-16-01

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Andrzej W. Lipkowski

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: November 9, 2000

2. Name and address of receiving party(ies)

Name: Medical Research Center of the Polish Academy of Sciences

Internal Address:

Street Address: Pawinski Street 5
02106
Warsaw Poland

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is _____

A. Patent Application No(s):

09/428,692

B. Patent No(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence
Concerning document should be mailed:

Name: Ivor R. Elrifi, Ph.D.
Address: MINTZ, LEVIN, COHN, FERRIS
GLOVSKY and POPEO, P.C.
One Financial Center
Boston, MA 02111

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41)

\$40.00

- ☒ Enclosed
☐ The Commissioner is authorized to charge Deposit Account
No: 50-0311, Reference No. 18475-016.

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9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Ivor R. Elrifi, Reg. No. 39,529

January 16, 2001

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: [4]

1/29/2001 DBYRNE 00000136 09428692

1 FC:581

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Washington, D.C. 20231

TRADOCS:1424713.1(%JBD011.DOC)

ASSIGNMENT

I, **Andrzej W. Lipkowski**, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, hereby assign, sell and transfer to the **Medical Research Center of the Polish Academy of Sciences**, with offices at **Pawinskiego Street 5, 02106, Warsaw, Poland** and its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE: (1) my entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for United States Letters Patent entitled:

NOVEL CHIMERIC ANALGESIC PEPTIDES

filed with the U.S. Patent and Trademark Office on October 28, 1999 and assigned Serial No. 09/428,692, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my name as the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

I hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made.

I agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

I further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

I further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date:



Signature of: Andrzej W. Lipkowski

IN WITNESS WHEREOF, We have hereunto set hand and seal

Signature of witness:

this 9 day of Nov 2000
Date of signing

WA 6271

Dr med.
Barbara:wska-Patzer
specjalista:zieci
farmacja:zaj
05-500-1250200 Stawów 5

TRADOCS:1396687.1(TX_V011.DOC)



UNITED STATES DEPARTMENT OF COMMERCE
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APRIL 04, 2001

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GLOVSKY AND POPEO, P.C.
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ONE FINANCIAL CENTER
BOSTON, MA 02111

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RECORDATION DATE: 01/16/2001

REEL/FRAME: 011451/0909
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
MISICKA-KESIK, ALEKSANDRA

DOC DATE: 11/09/2000

ASSIGNEE:
MEDICAL RESEARCH CENTER OF THE
POLISH ACADEMY OF SCIENCES
PAWINSKIEGO STREET 5
02106 WARSAW, POLAND

SERIAL NUMBER: 09428692
PATENT NUMBER:

FILING DATE: 10/28/1999
ISSUE DATE:

JEEVON JONES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

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MINTZ LEVIN, BOSTON
PATENT DOCKET DEPT.

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<input type="checkbox"/> Annuities	

01-29-2001



Attorney Docket No. 18475-016

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FORM PTO-1595

(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

1-16-01

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Patent and Trademark Office

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Aleksandra Misicka-Kesik

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Security Agreement

☐ Other

☐ Merger

☐ Change of Name

Execution Date: November 9, 2000

2. Name and address of receiving party(ies):

Name: Medical Research Center of the Polish Academy of Sciences

Internal Address:

Street Address: Pawinskiego Street 5
02106
Warsaw Poland

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is _____

A. Patent Application No(s):

09/428,692

B. Patent No(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence
Concerning document should be mailed:

Name: Ivor R. Elrifi, Ph.D.
Address: MINTZ, LEVIN, COHN, FERRIS
GLOVSKY and POPEO, P.C.
One Financial Center
Boston, MA 02111

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41)

\$40.00

☒ Enclosed

☐ The Commissioner is authorized to charge Deposit Account
No: 50-0311, Reference No. 18475-016.

DO NOT USE THIS SPACE

9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Ivor R. Elrifi, Reg. No. 39,529

Name of Person Signing

Signature

January 16, 2001

Date

Total number of pages including cover sheet, attachments, and document: [4]

Mail documents to be recorded with required cover sheet information to:

BOX ASSIGNMENT
Commissioner of Patents and Trademarks
Washington, D.C. 20231

TRADOCS:1424818.1(%J#011.DOC)

01/29/2001 DBYRNE 00000135 09428692

01 FC:581

40.00 DP

ASSIGNMENT

I, **Aleksandra Misicka-Kesik**, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, hereby assign, sell and transfer to the **Medical Research Center of the Polish Academy of Sciences**, with offices at **Pawinskiego Street 5, 02106, Warsaw, Poland** and its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE: (1) my entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for United States Letters Patent entitled:

NOVEL CHIMERIC ANALGESIC PEPTIDES

filed with the U.S. Patent and Trademark Office on October 28, 1999 and assigned Serial No. 09/428,692, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my name as the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

I hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, sale and transfer not been made.

I agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

I further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

I further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: Nov. 3, 2000

A. Misicka

Signature of: Aleksandra Misicka-Kesik

IN WITNESS WHEREOF, We have hereunto set hand and seal

[Signature]
Signature of witness: *[Stamp]*
farmakolog kliniczny
05-500 Piaseczno, ul. Pięciu Stawów 5

this 9 day of November 2000
Date of signing

TRADOCS:1396684.1(TX_S011.DOC)



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APRIL 04, 2001

PTAS
MINTZ, LEVIN, COHN, FERRIS, ET AL.
IVOR R. ELRIFI
ONE FINANCIAL CENTER
BOSTON, MA 02111



101595926A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/16/2001

REEL/FRAME: 011451/0977
NUMBER OF PAGES: 3

* BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MEDICAL RESEARCH CENTER OF THE
POLISH ACADEMY OF SCIENCES

DOC DATE: 01/03/2001

ASSIGNEE:

NEW ENGLAND MEDICAL CENTER
HOSPITALS, INC.
750 WASHINGTON STREET, NEMC #817
BOSTON, MASSACHUSETTS 02111

SERIAL NUMBER: 09428692
PATENT NUMBER:

FILING DATE: 10/28/1999
ISSUE DATE:

SHAREILL COLES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

RECEIVED

APR 11 2001

MINTZ LEVIN
PATENT DOCK

18475-016 N

<input checked="" type="checkbox"/> Data Entry	Done By
<input type="checkbox"/> Docket Entry	
<input type="checkbox"/> Docket Cross Off	
<input type="checkbox"/> Previously Entered	
<input type="checkbox"/> No Docketing Req	
<input type="checkbox"/> ELITE	
<input type="checkbox"/> And...	

01-29-2001

ny Docket No. 18475-016



101595926

6

FORM PTO-1595
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)

RECORDATION
DATE

116-01

DEPARTMENT OF COMMERCE
Patent and Trademark Office

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Medical Research Center of the Polish Academy of Sciences Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): Name: New England Medical Center Hospitals, Inc. Internal Address: 750 Washington Street, NEMC #817 Boston, MA 02111 Street Address: 750 Washington Street, NEMC #817 Boston, MA 02111 Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Security Agreement <input type="checkbox"/> Other _____ Execution Date: January 3, 2001		<input type="checkbox"/> Merger <input type="checkbox"/> Change of Name	
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is _____ A. Patent Application No(s): 09/428,692 B. Patent No(s): _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence Concerning document should be mailed: Name: Ivor R. Elrifi, Ph.D. Address: MINTZ, LEVIN, COHN, FERRIS GLOVSKY and POPEO, P.C. One Financial Center Boston, MA 02111		6. Total number of applications and patents involved: [1] 7. Total fee (37 CFR 3.41) \$40.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> The Commissioner is authorized to charge Deposit Account No: 50-0311, Reference No. 18475-016.	
DO NOT USE THIS SPACE			
9. Statement and signature <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> Ivor R. Elrifi, Reg. No. 39,529 Name of Person Signing Signature Date January 16, 2001 Total number of pages including cover sheet, attachments, and document: [4]			

Mail documents to be recorded with required cover sheet information to:

BOX ASSIGNMENT
Commissioner of Patents and Trademarks
Washington, D.C. 20231

TRADOCS:1424695.1(%J@V01!.DOC)

01/29/2001 DBYRNE 00000134 09428692

01 FC:581

40.00 OP

ASSIGNMENT

The **Medical Research Center of the Polish Academy of Sciences ("PAS")**, a nonprofit corporation organized under the laws of Poland, having a place of business located at Pawinskiego Street 5, 02106 Warsaw, Poland, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, hereby assign, sell and transfer to **New England Medical Center Hospitals, Inc., a Delaware corporation, with offices at 750 Washington Street, NEMC #817, Boston, MA 02111** and its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE: (1) my entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for United States Letters Patent entitled:

NOVEL CHIMERIC ANALGESIC PEPTIDES

filed with the U.S. Patent and Trademark Office on October 28, 1999 and assigned Serial No. 09/428,692, including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my name as the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

PAS hereby authorizes and requests the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by PAS had this assignment, sale and transfer not been made.

PAS agrees, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

PAS further agrees at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

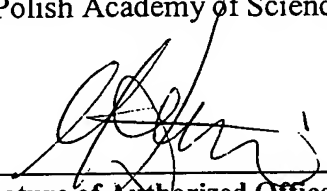
PAS hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

PAS further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Medical Research Center of the
Polish Academy of Sciences

Date:

3.01.2001.


By: Signature of Authorized Officer

Printed Name: JERZY W. ŁAZAREWICZ

Title: ASSOCIATE DIRECTOR

Witness

16552
By: Witness

Printed Name:

WA-1406

DARIUSZ KOSSON

lekarz specjalista anestezjologii
i intensywnej terapii

02-777 Warszawa, ul. Kopcińskiego 16/86

Date: 3-01-2001

ATTORNEY'S DOCKET NUMBER: 2004117-0002 (NEMC 197)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Carr et al. Examiner: Landsman, R.
Serial No.: 09/428,692 Art Unit: 1647
Filing Date: October 28, 1999
Title: NOVEL CHIMERIC ANALGESIC PEPTIDES

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, DC 20231

Sir:

ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION
(37 CFR 3.73(b))

The assignee of the entire right, title and interest of inventors the New England Medical Center Hospitals, Inc., hereby seeks to take action in the Patent and Trademark Office in the above matter.

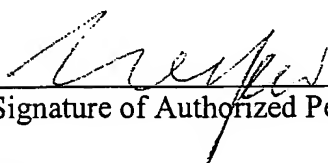
Ownership by the assignee is established as follows:

X documents already recorded in the PTO on June 27, 2001;
Reel 011939 Frame 0952; and
documents already recorded in the PTO on January 16, 2001;
Reel 011451 Frame 0912; and
documents already recorded in the PTO on January 16, 2001;
Reel 011451 Frame 0977.

X documents separately submitted for recordal to the PTO (a copy of these documents is attached).

STATEMENT

I, a person authorized to sign on behalf of the assignee, have reviewed the evidentiary documents referred to above and certify that, to the best of my knowledge and belief, title is mine/ours as assignees who seek to take further action.



Signature of Authorized Person

Date: 1/4/02

Name: William New

Title: Vice President, Research Administration

3340709v1



UNITED STATES PATENT AND TRADEMARK OFFICE

BHS/NML

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
09/428,692	10/28/1999	DANIEL B. CARR	18475-016

DAVID B BERNSTEIN
MINTZ LEVIN COHN FERRIS
GLOVSKY AND POPEO PC
ONE FINANCIAL CENTER
BOSTON, MA 02111

<input checked="" type="checkbox"/> Data Entry <input type="checkbox"/> Docket Entry <input type="checkbox"/> Docket Crossover <input type="checkbox"/> Previously Entered <input type="checkbox"/> No Docketing Required <input type="checkbox"/> CPI Annuity		DONE BY
---	--	-------------

CONFIRMATION NO. 4992



OC000000007585258

Date Mailed: 03/06/2002

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/19/2002.

- The Power of Attorney to you in this application has been revoked by the assignee who has intervened as provided by 37 CFR 3.71. Future correspondence will be mailed to the new address of record(37 CFR 1.33).



DOROTHY M THOMAS
1600 (703) 306-0514

NEW ATTORNEY/AGENT COPY



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov

APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
09/428,692	10/28/1999	DANIEL B. CARR	18475-016

CONFIRMATION NO. 4992



OC00000007586101

BRENDA HERSCHBACH JARRELL
CHOATE HALL & STEWART
EXCHANGE PLACE
53 STATE STREET
BOSTON, MA 02109

Date Mailed: 03/06/2002

NOTICE REGARDING POWER OF ATTORNEY

This is in response to the Power of Attorney filed 02/19/2002.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

DOROTHY M THOMAS
1600 (703) 306-0514

ATTORNEY/APPLICANT COPY

ATTORNEY'S DOCKET NO.: 2004117-0002 (NEMC 197)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Carr et al.	Examiner:	Landsman, R.
Serial No.:	09/428,692	Art Unit:	1647
Filing Date:	October 28, 1999		
Title:	NOVEL CHIMERIC ANALGESIC PEPTIDES		

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

REVOCATION OF PREVIOUS POWERS OF ATTORNEY AND
APPOINTMENT OF ATTORNEY UNDER 37 C.F.R. § 3.71

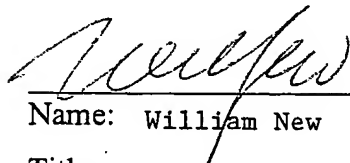
The undersigned hereby revokes all previous powers appointed in this case and appoints Sam Pasternack, Registration No. 29,576; Brenda Herschbach Jarrell, Registration No. 39,223; Kevin M. Tormey, Registration No. 41,351; Karoline K. M. Shair, Registration No. 44,332; Elizabeth Nugent, Registration No. 43,839, Valarie B. Rosen, Registration No. 45,698; Anne Marie Dinius, Registration No. 45,592; C. Hunter Baker, Registration No. 46,533; Monica R. Gerber, Registration No. 46,724; Elijah Cocks, Registration No. 47,499; and John Hamilton, Registration No. P-48,946, as its attorneys and agents for prosecution of matters relating to the above-identified patent application and to conduct all business in the United States Patent and Trademark Office.

All correspondence should be sent to:

Brenda Herschbach Jarrell, Ph.D.
Choate, Hall & Stewart
Exchange Place
53 State Street
Boston, Massachusetts 02109

Submitted on behalf of the New England Medical Center Hospitals, Inc.

Respectfully submitted,



Name: William New

Title: Vice President, Research Administration

Dated: January 9, 2002 ~~2001~~

3340700v1

Attorney Docket No. 18475-016

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if more than one name is listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

NOVEL CHIMERIC ANALGESIC PEPTIDES

the specification of which is attached hereto unless the following is checked:

[X] was filed on October 28, 1999, United States Application No. 09/428,692, PCT International Application No. _____, bearing attorney docket no. _____, and was amended on _____.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT International application designating at least one country other than the United States listed below and have also identified below any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

			Priority Claimed	
			[]	[]
(Number)	(Country - if PCT, so indicate)	(dd/mm/yy Filed)	Yes	No
<hr/>			[]	[]
(Number)	(Country - if PCT, so indicate)	(dd/mm/yy Filed)	Yes	No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT International application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

_____	_____	_____
(Application No.)	(Filing Date)	(Status: Patented, Pending, Abandoned)
_____	_____	_____
(Application No.)	(Filing Date)	(Status: Patented, Pending, Abandoned)

PCT International Applications designative the United States:

_____	_____	_____	_____
(PCT App No.)	(US Serial No.)	(PCT Filing Date)	(Status)

I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

David B. Bernstein, Registration No. 32,112
A. Jason Mirabito, Registration No. 28,161
Thomas M. Sullivan, Registration No. 39,392
Brett N. Dorny, Registration No. 35,860
Ivor R. Elrifi, Registration No. 39,529
John Harre, Registration No. 37,345
David F. Crosby, Registration No. 36,400
Leslie Meyer-Leon, Registration No. 37,381
John T. Prince, Registration No. 43,091
William A. Marino, Registration No. 44,219
Howard Susser, Registration No. 33,556
Brian Rosenbloom, Registration No. 41,276
Martin M. Zoltick, Registration No. 35,745
David E. Johnson, Registration No. 41,874
Shelby Walker, Registration No. P-45,192
James Cullem, Registration No. 43,569
Shane Hunter, Registration No. 41,858
Cynthia Kozakiewicz, Registration No. 42,764

Address all telephone calls to David B. Bernstein at telephone number (617) 542-6000. Address all correspondence to:

David B. Bernstein
Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C.
One Financial Center
Boston, Massachusetts 02111

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or patent issued thereon.

Daniel B. Carr
Inventor's Signature
Full Name of Inventor(s): Daniel B. Carr
Citizenship: USA
Residence: Chestnut Hill, MA 02467
Post Office Address: 935 Hammond Street
Chestnut Hill, MA 02467

7/20/00
Date

Andrzej W. Lipkowski
Inventor's Signature
Full Name of Inventor(s): Andrzej W. Lipkowski
Citizenship: Poland
Residence: Warsaw, Poland
Post Office Address: Medical Research Centre
Polish Academy of Sciences
Pawinskiego Street 5
02106 Warsaw, Poland

5/5/00
Date

Richard Kream
Inventor's Signature
Full Name of Inventor(s): Richard Kream
Citizenship: USA
Residence: Roslindale, MA 02431
Post Office Address: 41 Fairview Street
Roslindale, MA 02431

4/25/00
Date

Aleksandra Misicka-Kesik

Inventor's Signature

Full Name of Inventor(s): Aleksandra Misicka-Kesik

Citizenship: Poland

Residence: Piastow, Poland

Post Office Address: Krasinskiego Street 22
05820 Piastow, Poland

May 5, 2000

Date

TRADOCS:1256806.1(QXR@01!.DOC)